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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,950	07/03/2003	Alexis Tzannes	081513-320	5413
62574 SHERIDAN R	2574 7590 03/28/2007 SHERIDAN ROSS P C EXAMINER			
SUITE 1200			ROSARIO, DENNIS	
1560 BROADWAY DENVER, CO 80202		·	ART UNIT	PAPER NUMBER
			2624	
			·· <u>·</u> ···	
SHORTENED STATUTORY PERIOD OF RESPONSE '		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	A No No	A No			
•	Application No.	Applicant(s)			
Office Action Summary	10/611,950	TZANNES ET AL.			
Office Action Summary	Examiner	Art Unit			
TI MANUAL DATE of the comment of the	Dennis Rosario	2624			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA- Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status	·				
1) Responsive to communication(s) filed on 7/3/0	Responsive to communication(s) filed on <u>7/3/03</u> .				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-91 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-91 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>03 July 2003</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	☑ accepted or b) ☐ objected to b drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	•				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/3/03 12/31/03. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 73-91 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 73-91 are directed to a storage media that includes media that corresponds to "later developed systems or structures, devices and/or software" (see paragraph [080], last sentence of the specification).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly

claiming the subject matter which the applicant regards as his invention.

4. Claims 55-71 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 55-71 have the word "protocol" that is not mentioned in the specification.

Does the applicant mean a "standard" such as the "JPEG 2000 standard" or "JPEG standard" that is mentioned in the specification?

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-5,8,12-14,17-24,26,30-32,35-41,44,48-50,53-59,62,66-68,71-77,80,84-86 and 89-91 are rejected under 35 U.S.C. 102(b) as being anticipated by Lubin et al. (US Patent 6,075,884).

Regarding claim 19, Lubin discloses an image compression method comprising:

- receiving a first image (upon the input of fig. 4, num. 115) in a sequence of images and
- b) compressing (via fig. 4, num. 115) the image at least based on one or more parameters (fig. 4,num. 412); and
- b) adapting (via fig. 4, num. 112) the one or more parameters used on the first image for compression of a next image.

Claims 20 and 21 are rejected the same as claim 19b). Thus, argument similar to that presented above for claim 19b) is equally applicable to claims 20 and 21.

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Regarding claim 22, Lubin discloses the method of claim 21, wherein the metric is at least based on one of image file size and image quality (since figure 4 is called QME which stands for quality-metric-based encoding.).

Regarding claim 23, Lubin discloses the method of claim 22, wherein the metric governing image quality is based on one or more of:

- a) peak signal to noise ratio,
- b) mean squared error,
- .c) human visual system models and
- d) operator inspection (or "human viewer" in col. 7, line 34).

A rejection of claim 24 is moot based on the "one of" limitation in claim 22.

Regarding claim 26 Lubin discloses the method of claim 21, wherein the metric is based on a difference (or "differences" in col. 5, line 20) between a target image quality ("predicted ratings" in col. 5, line 20) and an achieved image quality ("ratings observed" in col. 5, line 20 where said ratings includes "quality levels" in col. 5, line 24).

Regarding claim 30, Lubin discloses the method of claim 19, wherein the first image and the next image are one or more of:

- a) a sequence of images (or ORIGINAL VIDEO as shown in fig. 4),
- b) time-series data, and
- c) 3-dimensional data sets.

Regarding claim 31, Lubin discloses the method of claim 19, further comprising:

a) iteratively ("iterations" in col. 7, line 44) controlling the one or more parameters.

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Claim 32 is rejected the same as claim 31. Thus, argument similar to that presented above for claim 31 is equally applicable to claim 32.

Regarding claim 35, Lubin discloses the method of claim 19, further comprising:

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a) selecting a quantization ("selection of a quantization" in col. 9, line 52).

Claims 1-5,8,12-14,17,18 are rejected the same as claims 19-23,26,30-32 and 35,19. Thus, argument similar to that presented above for claims 19-23,26,30-32 and 35,19 of a method is equally applicable to claims 1-5,8,12-14,17,18 of a system.

Claims 36-41,44,48-50,53,54 are rejected the same as claims 19,19-23,26,30-32 and 35,19. Thus, argument similar to that presented above for claims 19,19-23,26,30-32 and 35,19 of a system is equally applicable to claims 36-41,44,48-50,53,54 of a system.

Claims 55-59,62,66-68,71-72 are rejected the same as claims 19-23,26,30-32 and 35,19. Thus, argument similar to that presented above for claims 19-23,26,30-32 and 35,19 of a system is equally applicable to claims 55-59,62,66-68,71-72 of a protocol.

Claims 73-77,80,84-86,89,90,91 are rejected the same as claims 19-23,26,30-32 and 35,19,19. Thus, argument similar to that presented above for claims 19-23,26,30-32 and 35,19,19 of a system is equally applicable to claims 73-77,80,84-86,89,90,91 of a media.

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7. Claims 1,7,9,-11,15,16,18,19,21,25,27-29,33,34,36,37,43,45-47, 51, 52, 54, 55, 57,61,63-65,69,70,72,73,75,79,81-83,87,88,90 and 91 are rejected under 35 U.S.C. 102(e) as being anticipated by Mukherjee (US Patent 7,003,167 B2).

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Regarding claim 19, Mukherjee discloses an image compression method comprising:

- a) receiving a first image in a sequence of images (fig. 2,num. S3) and
- b) compressing the image (fig. 2,num. S6) at least based on one or more parameters (from fig. 2,num. S7 and S8); and
- b) adapting (via "adaptive image compression" in col. 3, line 50) the one or more parameters (CONTENT via fig. 2,num. S4) used on the first image for compression of a next image (fig. 2, num. S3).

Regarding claim 21, Mukherjee discloses the method of claim 19, wherein the compression parameter module adapts the one or more parameters based on a metric (or "in-progress measure" in col. 2, line 56).

Regarding claim 25, Mukherjee discloses the method of claim 21, wherein the metric is based on a difference between a target image file size and an achieved image file size ("difference between the determined com-pressed block size and the target block size" in col. 5, lines 64,65.

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Regarding claim 27, Mukherjee discloses the method of claim 19, wherein the one or more parameters are one or more of:

- a) quantization parameters and
- b) truncation parameters (or "BTC-VQ" in col. 4, line 40 that is a function of truncation and quantization).

Claims 28,29,33 and 34 are rejected the same as claim 27b). Thus, argument similar to that presented above for claim 27b) is equally applicable to claims 28,29,33 and 34.

Claim 36 is rejected the same as claim 19. Thus, argument similar to that presented above for claim 19 is equally applicable to claim 36.

Claims 1,7,9-11,15,16,18 are rejected the same as claims 19,25,27-29,33,34,19. Thus, argument similar to that presented above for claims 19,25,27-29,33,34,19 of a system is equally applicable to claims 1,7,9-11,15,16,18 of a method.

Claims 37,39,43,45-47,51,52,54 are rejected the same as claims 19,25,27-29,33,34,19. Thus, argument similar to that presented above for claims 19,25,27-29,33,34,19 of a system is equally applicable to claims 37,39,43,45-47,51,52,54 of a system.

Claims 55,57,61,63-65,69,70,72 are rejected the same as claims 19,25,27-29,33,34,19. Thus, argument similar to that presented above for claims 19,25,27-29,33,34,19 of a system is equally applicable to claims 55,57,61,63-65,69,70,72 of a protocol.

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Claims 73,75,79,81-83,87,88,90,91 are rejected the same as claims 19,25,27-29,33,34,19. Thus, argument similar to that presented above for claims 19,25,27-29,33,34,19 of a system is equally applicable to claims 73,75,79,81-83,87,88,90,91 of a media.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cornog et al. (US Patent 6,330,369 B1) is pertinent as teaching a method of "adaptive compression" in col. 3, line 25.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Rosario whose telephone number is (571) 272-7397. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dennis Rosario Unit 2624

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